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- (71) Applicants and
(72) Inventors: PRICKETT, Timothy Charles Ramsey [NZ/NZ]; 98 Sumnervale Drive, Sumner, Christchurch, 8008 (NZ). ESPINER, Eric Arnold [NZ/NZ]; 7 Pentre Terrace, Cashmere, Christchurch, 8002 (NZ). RICHARDS, Arthur Mark [NZ/NZ]; 51 Derby Street, St Albans, Christchurch (NZ). YANDLE, Timothy Grant [NZ/NZ]; 135 Major Hombrook Rd, Mt Pleasant, Christchurch (NZ). NICHOLLS, Michael Gary [NZ/AE]; Department of Medicine, Faculty of Medicine & Health Sciences, University of the United Arab Emirates, Box 17666, Al Ain (AE).
- (74) Agents: CALHOUN, Douglas C et al.; A J Park, Huddart Parker Building, 1 Post Office Square, P O Box 949, Wellington, 6001 (NZ).
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(54) Title: ASSESSMENT OF SKELETAL GROWTH USING MEASUREMENTS OF NT-CNP PEPTIDES

(57) Abstract: A means of measuring and monitoring skeletal growth rate using a plasma analyte, amino-terminal C-type natriuretic peptide (NT-CNP). Plasma NT-CNP concentrations reflect the potential for further growth of the immature skeleton. Measurement of plasma NT-CNP in a subject, when related to the mean of an appropriate age and gender matched set of control subjects, provides an index of the severity of a growth disorder not otherwise available and facilitates diagnosis in children with undetected osteochondrodysplasias or other intrinsic disorders of the growth plate. The invention also provides a means of detecting and monitoring potentially harmful effects of drugs and other factors on skeletal growth long before they are evident using current methods in clinical practice.

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